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Notice of Allowability	Application No.	Applicant(s)	
	10/626,146	LEARNED, RACHEL E.	
	Examiner	Art Unit	
	YOUNG T. TSE	2611	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to the amendment filed on 08 January 2007.
2. ☒ The allowed claim(s) is/are 1-3,5-14 and 16-27.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☐ All b) ☐ Some* c) ☐ None of the:
 1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

- | | |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ol style="list-style-type: none"> 1. <input type="checkbox"/> Notice of References Cited (PTO-892) 2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) 3. <input type="checkbox"/> Information Disclosure Statements (PTO/SB/08),
Paper No./Mail Date _____ 4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit
of Biological Material | <ol style="list-style-type: none"> 5. <input type="checkbox"/> Notice of Informal Patent Application 6. <input type="checkbox"/> Interview Summary (PTO-413),
Paper No./Mail Date _____ 7. <input checked="" type="checkbox"/> Examiner's Amendment/Comment 8. <input type="checkbox"/> Examiner's Statement of Reasons for Allowance 9. <input type="checkbox"/> Other _____ |
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EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it **MUST** be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Mr. Scott J. Asmus on February 1, 2007.

The application has been amended as follows:

In claim 1, line 13, "said high" and "output" have been changed to "said bank of high" and "outputs", respectively; and lines 16-17, the term "said plurality of refined information streams, and" has been deleted.

In line 4 of both claims 2 and 12, the word "FANO" has been changed to "Fano algorithm".

In claim 3, line 5, the comma "," after the word "decoders" has been deleted.

In claim 5, line 2, the term "a deinterleaver" has been changed to "a first deinterleaver"; line 4, the term "an interleaver" has been changed to "a first interleaver"; line 6, the term "a deinterleaver" has been changed to "a second deinterleaver"; line 9, the term "an interleaver" has been changed to "a second interleaver"; and lines 2-3, 5, 7 and 9, the terms "each output stream of" and "each output of" have been deleted.

In claim 8, line 2, the term "coupled to" has been changed to "coupled between"; and line 4, the comma "," after the word "unit" has been deleted.

In claim 9, line 3, the comma "," after the word "bank" has been deleted.

In claim 11, line 23, the comma “,” before the word “and” has been deleted; and line 32, the word “output” has been changed to “outputs”.

In claim 13, line 3, the word “are” has been changed to “is”.

Claim 15 has been canceled.

In line 2 of both claims 18 and 20, the term “said front end” has been changed to “said front end section”.

In claim 19, line 3, the comma “,” after the word “filters” has been deleted.

In claim 20, line 1, the word “apparatus” has been deleted.

In claim 22, line 8, the term “detector and” has been changed to “detector by a bank of high complexity error correction decoders”; line 15, the term “said steps of” has been deleted; and line 18, the word “output” has been changed to “output by a bank of low complexity error correction decoders”.

In claim 25, lines 3 and 4, the term “said high” has been changed to “said bank of high”; and lines 3 and 5, the term “said low” has been changed to “said bank of low”.

In claim 27, line 2, the term “further comprising computing” has been changed to “wherein computing the”.

2. The following is an examiner’s statement of reasons for allowance: the prior art fails to show or suggest that a hybrid multi-user detector, hybrid receiver or method for processing raw input data of received signals comprises a high and low complexity multi-user detector and a bank of high and low complexity error correction decoders instead of a complexity multi-user detector and a bank of complexity error correction decoders used in conventional art. Wherein the bank of low complexity error correction

decoders is coupled to the low complexity multi-user detector to generate a plurality of refined-improved information streams, the plurality of refined-improved information streams is used to feed back to the low complexity multi-user detector until a final condition is reached, wherein the bank of low complexity error correction decoders outputs a final plurality of symbol streams.

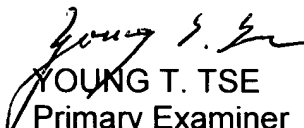
Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to YOUNG T. TSE whose telephone number is (571) 272-3051. The examiner can normally be reached on Monday-Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jay Patel can be reached on (571) 272-2988. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Art Unit: 2611

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.


YOUNG T. TSE
Primary Examiner
Art Unit 2611